Prana Medical

A low-cost assisted respiration device.

ABHI +1 341-600-2665 **ZACH** +44 7342-640124







"[The] availability of ventilators is a luxury we only dream about."

"We have had patients deteriorate just because we couldn't access... various ventilation accessories."

Let's save lives my friends.
EVERY LIFE MATTERS **

Dr. Alfred Aidoo Anesthesiology Resident

MAGNITUDE

<2,000
Working ventilators across 41 African countries

VS.

>170,000
Working ventilators in the United States

The New York Times

April 17, 2020

Ventilators Africa needs
700,000 – 1.4 million

RESEARCH





Experts we've spoken to

Ghana, Uganda, Tanzania, Cambodia, Mexico, India, Sri Lanka, Oman, USA, UK 13 Physicians

13 Anesthesiologists

Respiratory Therapists

Biomedical Engineers

Pediatricians

Respiratory Care Professors

Pulmonologists

d Intensivists

Ops & Supply Chain

PROBLEMS

Capacity

Hospitals are frequently overwhelmed with patients

Doctors send patients away who return when their conditions escalate

Cost

Upfront cost of acquiring a ventilator is very high

60 million Ugandan Shillings (\$17,000) or 40 million Tanzanian Shillings (\$17,250)

Lives

Patients can't afford care so lives are lost

ICU bed from 1 million Ugandan Shillings (\$280) to 5 million Ugandan Shillings (\$1,400) per day

PREVIOUS PROTOTYPES







CURRENT PROTOTYPE



Pressure Control

17	17	17	16
00		99	

Flow Rate Control

0	0	3	3
73		79	

BUSINESS MODEL

Current Expenditure

\$8,000

for oxygen cylinders every month

\$17,000 ×

for upfront purchase of ventilators

Prana's Subscription Price

\$80-120

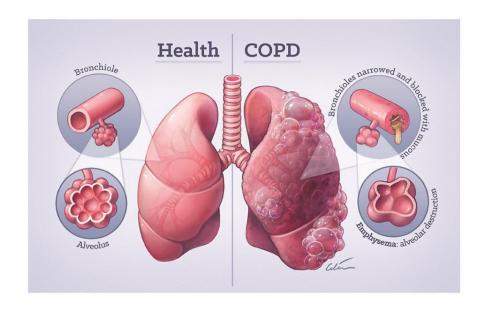
per unit per month

*minimum 24-month commitment

Includes installation, training, servicing

Similar model to WHOOP

OPPORTUNITY



Chronic Obstructive Pulmonary Disease (COPD)

\$200 Billion

estimated total market size in Africa

26 Million

cases in Africa in 2010 (expected to rise)

TEAM



Abhi Ghavalkar Co-founder & CEO

Master of Design (MDes) UC Berkeley

BEng (Hons) Product Design Engineering *Loughborough University*



Zach Mudge Co-founder & CTO

Management Consultant Kaizen Institute

MEng (Hons) Product Design Engineering *Loughborough University*



Akash Ghavalkar Customer Discovery & Market Research

Operations & Marketing Lead The Washing Machine Project

BEng (Hons) Chemical Engineering Loughborough University

ADVISORS & MENTORS



Lisa Trujillo DHSc, RRT, FAARC

- International Council for Respiratory Care (ICRC)
- American Association for Respiratory Care (AARC)
- · Kansas University Medical Center
- · Implemented Respiratory Therapy program in Ghana
- Visited Ghana 20+ times to train staff

Utah Respiratory Therapist Receives Koga Medal for Work in Ghana

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News Archive

Media



The physicians and nurses pictured here were trained to use the Fanem CPAP machine by Trujillo and her colleagues



Gail Gannon CEO, Ensanté

· Healthcare and business strategy



Bharat Joshi COO, Ensanté

· Engineering development and roadmap



Brian Daniel RCP, RRT, Lecturer

· Clinical advice and testing with UCSF Health











AWARDS, ACCOLADES & ACCELERATORS







Finalist
World Changing Ideas, 2021



Kansas Respiratory
Care Society
Annual Conference



Student Notable Health & Wellness, 2021









Finalist
One of 26 out of 352 teams, 2021



Ignite Grant (\$2,000) One of 5 teams, 2021

HOW IT STARTED & HOW IT'S GOING

